

CLAIMS

Please enter the indicated amendments. Please cancel, without prejudice, claims 9-12. Please add new claim 21.

1.(Currently Amended) A screen assembly for one or more filtering media, said screen assembly comprising:

a support screen for supporting said one or more filtering media, comprising
a first plurality of wires oriented in a first direction; and
a second plurality of wires oriented in a second direction and making contact with said first plurality of wires to form a plurality of intersections between said first plurality of wires and said second plurality of wires, each of said plurality of intersections being welded together to thereby form said support screen, said first plurality of wires and said second plurality of wires being unwoven with respect to each so as to not form a woven screen; and

at least one relatively finer filtering screen, said at least one relatively finer filtering screen being secured with respect to a surface of said support screen, said support screen being mechanically stronger than said at least one relatively finer filter screen for mechanically supporting said at least one relatively finer screen.

2. (Currently amended) The screen assembly of claim 1, further comprising said first plurality of wires and said second plurality of wires being closely engaged with each other at said plurality of intersections in a manner to permit simultaneous welding of said first plurality of wires and said second plurality of wires at said plurality of intersections [wherein said one or more filtering media further comprises:

at least one relatively finer filtering screen secured with respect to a surface of said support screen].

[3] 20. (Cancelled) [The assembly of claim 2, wherein said support screen is mechanically stronger than said at least one relatively finer filter screen and mechanically supports said at least one relatively finer screen.]

3. (Original) The assembly of claim 1, wherein said first plurality of wires comprises a planar surface for engaging and supporting said one or more filtering media.

4. (Original) The assembly of claim 1, wherein said first plurality of wires is substantially straight, and said second plurality of wires is substantially straight.

5. (Original) The assembly of claim 4, wherein said first plurality of wires are intersected by a first plane, and said second plurality of wires are intersected by a second plane, such that the first plane and the second plane are substantially parallel to each other.

6. (Original) The assembly of claim 1, wherein said first plurality of wires comprise a flat surface and said second plurality of wires comprise a flat surface.

7. (Original) The assembly of claim 1, wherein said first plurality of wires comprise a flat surface and said second plurality of wires comprise a rounded surface.

8. (Original) The assembly of claim 1, wherein said first plurality of wires comprise a rounded surface and said second plurality of wires comprise a rounded surface.

9. (Cancelled) [A method for mounting vibrational filters, said method comprising:
providing a first plurality of wires oriented in a first direction;

engaging said first plurality of wires with a second plurality of wires oriented in a second direction to form a plurality of intersections therebetween;

welding said first plurality of wires to said second plurality of wires at said plurality of intersections to form a support screen; and

securing one or more filtering screens to said support screen.]

10. (Cancelled) [The method of claim 9, further comprising:

providing that at least one of said first plurality of wires or said second plurality of wires comprises a planar support surface for supportably engaging at least one of said one or more filtering screens.]

11. (Cancelled) [The method of claim 9, further comprising:

providing that each of said first plurality of wires and said second plurality comprise a planar surface.]

12. (Cancelled) [The method of claim 9, further comprising:

providing that each of said first plurality of wires and said second plurality comprise a substantially rounded surface.]

13. (Currently Amended) A vibrational screen filtration assembly for filtering one or more materials, comprising:

a first plurality of planar wires, said first plurality of planar wires each comprising at least one planar surface extending continuously along all or most of a length of each of said first plurality of planar wires;

a second plurality of wires, said first plurality of planar wires being welded to said second plurality of wires to form a support screen, said first plurality of wires and said second plurality of wires being unwoven with respect to each other, said support screen having a first surface with a first plurality openings therein formed by said first plurality of planar wires and said second plurality of wires;

at least one additional screen mounted to said first surface of said first screen and secured thereto, said at least one additional screen being formed with a second plurality of openings, said second plurality of openings being finer than said first plurality of openings, said first screen being mechanically stronger than said second screen.

14.(Original) The vibrational screen filtration assembly of claim 13, wherein said first plurality of planar wires comprise a planar surface.

15. (Original) The vibrational screen filtration assembly of claim 14, wherein said planar surface supportingly engages said at least one additional screen.

16. (Original) The vibrational screen filtration assembly of claim 13, wherein said second plurality of wires comprise a rounded surface.

17. (Original) The vibrational screen filtration assembly of claim 13, wherein said second plurality of wires comprise a cross-section with a planar surface.

18. (Original) The vibrational screen filtration assembly of claim 13, wherein said first plurality of wires has a different cross-sectional shape than said second plurality of wires.

19. (Original) The vibrational screen filtration assembly of claim 13, wherein said first plurality of wires has a substantially identical cross-sectional shape as said second plurality of wires.

[3] 20. (Cancelled) [The assembly of claim 2, wherein said support screen is mechanically stronger than said at least one relatively finer filter screen and mechanically supports said at least one relatively finer screen.]

21. (New) The vibrational screen filtration assembly of claim 13, further comprising said first plurality of wires and said second plurality of wires being closely engaged with each other in a manner to permit simultaneous welding together thereof.